

# Notice of Allowability

Application No.

09/384,963

Examiner

Li B. Zhen

Applicant(s)

SANKAR ET AL.

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to response file on 07 May 2004 and interview conducted on 23 August 2004.
2. ☒ The allowed claim(s) is/are 10-40.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) \*
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 8/30/2004.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
MENG-AL T. AN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Ms. JiNan Glasgow on August 23, 2004.

3. The application has been amended as follows:

- a. Cancel claims 1-9; and
- b. Replace claims 24, 32, 34 and 37 with the following:

24. A method allowing for mixed-mode execution of a subject computer program in an object-oriented programming environment, the method comprising the steps of  
    profiling the source code instructions of a subject computer program to identify the class members in the computer program, wherein the subject computer program includes source code instructions and byte code instructions compiled from the source code instructions, wherein a source code instruction processor (SCIP) is operable to execute source code instructions of the subject computer program, the SCIP including an extendable bridge class allowing for the addition of new classes to the SCIP, and

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wherein a byte code instruction processor (BCIP) is operable to execute the SCIP and the subject computer program; and,

extending the bridge class with methods allowing access to the class members.

32. A method allowing for mixed-mode execution of a computer program by a source code instruction processor (SCIP) and a byte code instruction processor (BCIP), the method comprising the steps of

determining at least one transfer point in the source code of a first method in a subject computer program where control of execution of the first method is operable to be transferred from the SCIP to the BCIP; wherein a bridge class allows for addition of classes to the SCIP and includes a method calling to the first method in the subject computer program; wherein the subject computer program includes source code instructions and byte code instructions compiled from the source code instructions, wherein the SCIP is operable to execute source code instructions of the subject computer program, the SCIP including an extendable bridge class allowing for the addition of new classes to the SCIP, and wherein the BCIP is operable to execute the SCIP and the subject computer program;

inserting, during compilation of the source code of the subject computer program, a control transfer method, wherein the transfer method is operable to execute the first method from the corresponding transfer point; and

extending the bridge class with a method calling to the control transfer method.

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34. A method allowing for mixed-mode execution of a computer program by a source code instruction processor (SCIP) and a byte code instruction processor (BCIP), the method comprising the steps of

determining at least one transfer point in the source code of a first method where control of execution of the first method is operable to be transferred from the BCIP to the SCIP, the SCIP including an extendable bridge class allowing for the transfer of control of execution;

wherein the subject computer program includes source code instructions and byte code instructions compiled from the source code instructions, wherein the SCIP is operable to execute source code instructions of the subject computer program, the SCIP including an extendable bridge class allowing for the addition of new classes to the SCIP, and wherein the BCIP is operable to execute the SCIP and the subject computer program;

inserting, during compilation of the source code, a call to the SCIP at each transfer point; wherein the call is operable to pass execution of the first method from the BCIP to the SCIP.

37. A method allowing for mixed-mode execution of a computer program in an object-oriented programming environment, the computer program including source code instructions and byte code instructions compiled from the source code instructions, wherein a source code instruction processor (SCIP) is operable to execute source code instructions, wherein the SCIP includes a bridge class allowing for the addition of new

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classes, and wherein a byte code instruction processor (BCIP) is operable to execute byte code instructions, the method comprising the steps of

profiling the source code instructions to identify the attributes of each class in the computer program;

extending the bridge class to refer to the attributes of each class;

determining at least one transfer point in the source code of a first class where control of execution of the first class is operable to be transferred from the BCIP to the SCIP; and

inserting, during compilation of the source code instructions into byte code instructions, control transfer calls to the SCIP at each transfer point;

wherein each control transfer is operable to transfer execution of the computer program from the BCIP to the SCIP.

### ***Conclusion***

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

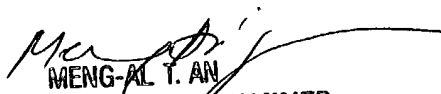
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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August 30, 2004

  
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